

VERSION OF AMENDMENTS SHOWING MARKINGS

In the Specification

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In order for a person to obtain the information on the system or component status a masking cover 70 is provided that includes a first peripheral opening 70a that permits viewing ~~one or the other of~~ the readable message on one or the other of the peripheral regions 60a and 60b therethrough. That is, on one condition the "OPEN" message can be visible through peripheral region 70a to let the operator know that the component being monitored is in an open condition. Similarly, in another condition the "CLOSED" message can be visible through opening 70a to let the observer know the component is in a closed condition.

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The cam shaft 40a and indicator 60 in cooperation with cover 65, housing 12 and transparent cover 75 can provide a visual indication of the status of a component through the rotational displacement of the cam shaft 40. A further feature of the invention is that the cam shaft 40 can be used to control an electrical circuit. In order to appreciate the control of an electrical circuit reference should be made to Figure 1, which shows a switch holder 30 comprising a box like member extending upwardly in the housing 12. Switch holder 30 contains a chamber ~~30a~~ 30f for receiving a first electrical switch 31 having a cantilevered roller arm 31a and second electrical switch having a cantilevered rolling arm 33b. Such switches are well known in the art and are readily available as off-the-shelf items. The switches have two conditions, an off condition and an on condition. In one type of switch the off condition occurs when the roller arm is depressed and in another type of switch the on condition occurs when the roller arm is depressed. Each of the switches 31 and 32 are peripherally held in position by the sidewalls of the box like switch holder 30 so that no screws or the like are required to secure the switches in an operating condition proximate cam 55.

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cantilevered resiliently mounted roller arms 31a and 33b protrude outward from switch holder 30 and are in an operable position to engage the cam 55. In the position shown a cylindrical cam surface 55c is in contact engagement with roller arm 33b and the cam lobe 55b is in contact engagement with roller arm 31a. Additional cam lobes 55d and 55e provide for additional contact with the roller arms. As cam shaft 40 rotates the different cam lobes 55d and 55e are brought into contact with the roller arms on the switches 31 and 33 to bring the switches 31 and 33 to proper on or off condition. Thus, a feature of the invention is that a conventional electrical switch can be quickly inserted or removed from switch holder 30 by merely engaging or disengaging snap latch cover 30a which includes ears for engaging the peripheral lip extensions 30d on switch holder 30. In the embodiment shown switch holder 30 includes a base 30e that can be secured to extension 12e in housing 12 to allow for removal and replacement with few or no hand tools. (See Figure 1)

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A further feature of the invention is the inclusion of an electrical terminal block holder 20 which is shown in Figure 1. Terminal block holder 30 comprises a frame like member having a set of cylindrical pegs 20c that extend upward. The lower portion of block holder 20 includes an extension 20a for frictionally engaging extension 12f in housing 12 to hold electrical terminal block holder 20 thereon. Once the terminal block holder ~~30~~ 20 is secured to housing 12 the terminal block 25 is positioned on the cylindrical pegs 20c to prevent lateral movement thereon. The side member 20b of block holder 20 comprises a resilient member having a lip (not shown) that latchingly engages one end of the terminal block 25 to hold one end of the terminal block in position in housing 12. An identical side member (not shown) is located on the opposite end of block holder 20 to hold the opposite end of the terminal block 25 in position.

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An interface device 15, which can be a transducer or the like that relates a pneumatic condition to an electrical condition, can be secured to housing 12 through an extension 15a to enable a pressure

signal to be transferred through ~~connection fastener~~ 12c to ~~transducer~~ interface device 15 through the sidewall of housing 12. The interface device 15 includes a set of electrical leads 15b for connection to the electrical terminal block 25. The electrical leads are omitted for purposes of clarity, but in operation the electrical leads 15b can extend from the interface device 15 to the terminal block 25 and from the terminal block 25 to the connector lugs (not shown) on the electrical switches 31 and 33. Thus a further feature of the invention is that the terminal block is removably mounted in housing 12 and can be replaced as well as the terminal holder 20. In addition, the chamber 13 in housing 12 can carry both electrical components as well as mechanical components with either or both of the electrical and mechanical components field replaceable.